

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A device for separating target microorganisms from a suspension ~~by immersion in the suspension containing mixed groups of microorganisms comprising:~~

a plurality of beads coated with a least one antibody material to capture the target microorganisms; and

~~an enclosure made of a grid material enclosing~~ containing said beads, wherein said enclosure has ~~with~~ a pore size smaller than the size of said beads and larger than the size of the microorganisms, ~~and comprising means to agitate or to suspend and agitate the enclosure in the suspension.~~

2. (Original) The device of claim 1 wherein said beads are made of resinous material.

3. (Original) The device of claim 1 wherein said beads are made of non-resinous material.

4. (Currently Amended) The device of claim 1 ~~wherein the~~ further comprising ~~means to agitate or to suspend and agitate~~ the enclosure in the suspension. ~~is a rod or string.~~

5. (Currently Amended) A method of separating target microorganisms from a suspension ~~containing mixed groups of microorganisms~~, comprising:

immersing a plurality of beads coated with at least one antibody material into the suspension, said beads being held by an enclosure ~~made of a grid material~~ with a pore size smaller than the size of said beads and larger than the size of the microorganisms,

~~agitating or suspending and agitating~~ the enclosure in the suspension thereby allowing the capture of the target microorganisms by said beads; and

washing said beads to remove organisms not bound ~~bounded~~ to said beads,
~~after pulling said enclosure from the suspension.~~

6. (Original) The method of claim 5 wherein at least one detergent is applied in said washing.

7. (Currently Amended) The method of claim 5 further comprising agitation of said enclosure holding said beads in the suspension. ~~with an attached rod or string.~~

8. (Original) The method of claim 5 wherein the time period of agitation is at least 30 minutes.

9. (Original) The method of claim 5 wherein the time period of agitation extends for several hours.

10. (Original) The method of claim 5 including the addition of at least one detergent to the suspension to decrease absorption of non-specifically bound cells.

11. (Original) The method of claim 5 including the subsequent step of immersing the enclosure and beads in new growth broth.

12. (Original) The method of claim 11 including the addition of an indicator material to the new growth broth.

13. (Original) The method of claim 5 including the subsequent step of separating the beads from the enclosure followed by at least one test to reveal the microorganisms of interest.

14. (Currently Amended) The method of claim 5 wherein said enclosure further comprises means attached to ~~an upper part of~~ the enclosure for moving the enclosure in the suspension and for subsequent removal of the enclosure from the suspension.

15. (Currently Amended) The device of claim 1 including means attached to ~~an upper part of~~ the enclosure for moving the enclosure in the suspension and for subsequent removal of the device from the suspension.

16. (New) The method of claim 14 wherein said means attached to the enclosure for moving the enclosure in the suspension and for subsequent removal of the enclosure from the suspension is attached to an upper part of the enclosure.
17. (New) The device of claim 15 wherein said means attached to the enclosure for moving the enclosure in the suspension and for subsequent removal of the device from the suspension is attached to an upper part of the enclosure.
18. (New) The method of claim 5 wherein said enclosure is made of a grid material.
19. (New) The device of claim 1 wherein said enclosure is made of a grid material.
20. (New) The method of claim 7 wherein said enclosure holding said beads in the suspension is agitated with a rod or string attached to the enclosure.
21. (New) The device of claim 4 wherein said means to suspend and agitate the enclosure in the suspension is a rod or string.